

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS PO Box 1450 Alexascins, Virginia 22313-1450 www.emplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/530,543	11/07/2005	John Donnelly	PP019844.0003	4724	
22456 7500 (2019)2008 NOVARTS VACCINES AND DIAGNOSTICS INC. INTELLECTUAL PROPERTY R338 P.O. BOX 8097 Emeryville, CA 94662-8097			EXAM	EXAMINER	
			BOESEN, AGNIESZKA		
			ART UNIT	PAPER NUMBER	
,,	y, c		1648	•	
			MAIL DATE	DELIVERY MODE	
			02/19/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/530 543 DONNELLY ET AL. Office Action Summary Examiner Art Unit Agnieszka Boesen 1648 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 19 November 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) \_\_\_\_\_ is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-39 are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date \_

Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) T Information Disclosure Statement(s) (PTO/SE/08)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/530,543 Page 2

Art Unit: 1648

### DETAILED ACTION

Applicant's response filed November 19, 2007 to the restriction requirement of August 1, 2007 is acknowledged. Upon further consideration, the restriction requirement of August 1, 2007 is vacated and a new restriction requirement is set forth. Any inconvenience is regretted.

Applicant's preliminary amendment filed November 7, 2005 is acknowledged and has been entered. Claims 1-39 are pending and are subject to the following restriction.

The Office notes that claims 5, 6, 10, 13, 31, 32, 35, and 38, refer to particular Tables in the Specification. Applicants are remained that where possible, claims are to be complete in themselves. Incorporation by reference to a specific figure or table "is permitted only in exceptional circumstances where there is no practical way to define the invention in words and where it is more concise to incorporate by reference than duplicating a drawing or table into the claim MPEP § 2173.05(s). It is suggested that the claims be amended to recite the limitations with regard to the compositions from the Tables in the Specification.

#### Flection/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions, which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-6, drawn to an HIV DNA vaccine, comprising a nucleic acid expression vector comprising HIV Gag-encoding sequence, and PLG. Group II, claims 1-6, drawn to an HIV DNA vaccine, comprising a nucleic acid expression vector comprising at least one HIV Env-encoding sequence, and PLG.

Group III, claim 7-13, drawn to an HIV vaccine composition comprising oligomeric gp140.

Group IV, claims 14 and 28-38 drawn to an HIV vaccine comprising HIV Gag DNA, and HIV Env-encoding sequence, and oligomeric gp140, and PLG and a pharmaceutically acceptable excipient.

Group V, claims 15-22, and 39 drawn to a method of generating an immune response in a subject comprising administering a vaccine comprising HIV Gag- or Env-encoding sequence, and PLG and a vaccine comprising oligomeric gp140.

Group VI, claims 23, 24, and 27 drawn to a method of making oligomeric HIV Env gp140 proteins comprising introducing a nucleic acid encoding gp140 into a host cell, culturing the host cells and isolating oligomeric gp140.

Group VII, claims 25 and 26, drawn to a method of making HIV DNA vaccine comprising combining a nucleic acid expression vector with aseptic PLG microparticles.

Application/Control Number: 10/530,543 Page 4

Art Unit: 1648

This application contains claims directed to more than one species of the generic

invention. These species are deemed to lack of unity of invention because they are not so linked

as to form a single general inventive concept under PCT Rule 13.1. If either group I or II is

elected Applicant is required to elect one species of vaccine composition.

A) Vaccine composition in Table 1, or

B) Vaccine composition in Table 2.

If either group III or IV is elected Applicant is required to elect one species of vaccine

composition.

C) Vaccine composition in Table 3, or

D) Vaccine composition in Table 11.

If group IV is elected Applicant is required to elect one species of vaccine composition

component HIV Env DNA.

E) Vaccine composition component in Table 1, or

F) Vaccine composition component in column 2 of Table 9.

If group IV is elected Applicant is required to elect one species of vaccine composition

component HIV Gag DNA.

E) Vaccine composition component in Table 2, or

F) Vaccine composition component in column 2 of Table 9.

Application/Control Number: 10/530,543

Art Unit: 1648

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The inventions listed in groups I, II, III, IV, V, VI and VII do not relate to a single general inventive concept under PCT Rule 13.1 because they lack the same or corresponding special technical features for the following reasons: the special technical feature of the claimed invention is the HIV DNA vaccine composition comprising at least one HIV Gag- or Env-

Application/Control Number: 10/530,543

Art Unit: 1648

encoding sequence and PLG, or oligomeric gp-140. zur Megede et al. (US Patent 7,211,659 B2) disclose HIV DNA vaccine composition comprising HIV Gag- or Env-encoding sequence and PLG, or oligomeric gp-140 (see column 2, lines 62-67, and column 34, lines 44-67).

Since Applicant's invention does not contribute a special technical feature when viewed over the prior art they do not have a single inventive concept and thus the claims lack unity of invention. Therefore, the instant invention lacks Unity of Invention and restriction is set forth as it applies to U.S. practice.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## Notice of Possible Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully Art Unit: 1648

examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of In re Ochiai, In re Brouwer and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Agnieszka Boesen whose telephone number is 571-272-8035. The examiner can normally be reached on Monday -Friday 9:00 AM to 5:30 PM.

Application/Control Number: 10/530,543 Page 8

Art Unit: 1648

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Agnieszka Boesen, Ph.D./ Examiner, Art Unit 1648

/Stacy B Chen/ Primary Examiner, Art Unit 1648